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Commands of MAC Address Management-3



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Chapter 1 Commands of MAC Address Management

1.1 mac-address-table learning

[Function]

Enable and disable MAC address learning function of physical port.

[Command Format]

mac-address-table learning *{enable/disable}* **port-list** *{all|port-number}* *[schedule-list list-no]*

[Parameter]

enable: enable learning function

disable: disable learning function

port-list: physical port list

all: all the physical ports

port-number: the number of port, range from 1 to 26; use comma to separate, ie: 1,8-5,23;

schedule-list: Set the starting time, ending time and periodical operation time.

list-no: specify the certain schedule list <0-99>.

[Default]

By default, the learning function of MAC address is enabled.

[Command Modes]

Global configuration mode

[Explanation of command execution echo]

Set successfully

Set port XX unsuccessfully!

The input port list is wrong!

[Example]

Enable MAC address learning function of port 5:

```
Raisecom(config)#mac-address-table learning disable port-list 5, 10
```

[Related commands]

Commands	Description
show interface port	Show one or all ports state.

1.2 mac-address-table static multicast

[Function]

Use the command to add a layer-2 port as multicast group member, **no** command can cancel the configuration.

[Command Format]

[no] mac-address-table static multicast *mac-address* **vlan** *vlan_id* **port** *portlist*

[Parameter]

mac-address: specify static group MAC address, in format of 0100.5eHH.HHHH;

vlan: VLAN

vlanid: VLAN ID (optional), range from 1 to 4094;

port: physical port;

portlist: specify static router port number being configured, range: 1~26.

[Command Modes]

Global configuration mode; privileged user

[Command Executing Instruction]

Use the command to add a layer-2 port as multicast group member, **no** command can cancel the configuration.

[Explanation of command execution echo]

VLAN X does not exist or not active.

Port is not in vlan.

IGMP snooping on VLAN is disable!

Join port in a assigned group on assigned VLAN successfully

Join port in a assigned group on assigned VLAN unsuccessfully

Disable join port in a assigned group on assigned VLAN successfully

Disable join port in a assigned group on assigned VLAN unsuccessfully

Fail to disable join port in a specified group on specified VLAN, the reason maybe MAC address not exist or port not exist.

[Example]

The below example shows how to add ports 1-5 into group 0100.5e02.0203:

```
Raisecom(config)#mac-address-table static multicast 0100.5e02.0203 vlan 1 line 1-5
```

The below example shows how to cancel adding ports 1-5 into group 0100.5e02.0203:

```
Raisecom(config)#no mac-address-table static multicast 0100.5e02.0203 vlan 1 line 1-5
```

[Related commands]

Commands	Description
show mac-address-table static	Show static address of some one or all (ports or VLAN) .

1.3 mac-address-table static unicast

[Function]

Set the static MAC address, no command to delete.

[Command Format]

```
[no] mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan_id port port-number
```

[Parameter]

static: static address

HHHH.HHHH.HHHH: MAC address, hexadecimal number, each four characters to be point separate;

vlan: VLAN;

vlan_id: VLAN ID, range from 1-4094;

port: physical ports;

port-number: physical port, range from 1-26.

[Default]

No static MAC address.

[Command Modes]

Global configuration mode

[Explanation of command execution echo]

Set successfully

VLAN X does not exist or not active!

Port X is not in vlan Y!

Join port X in a assigned group Y on assigned VLAN Z unsuccessfully!

Warning! This MAC address has already existed.

[Example]

Set the static MAC address for port 3 which is associated with VLAN 1:

Raisecom(config)#**mac-address-table static unicast** 1234.abcd.0000 **vlan 1 port 3**

Delete the static MAC address for port 3 which is associated with VLAN 1:

Raisecom(config)#**no mac-address-table static unicast** 1234.abcd.0000 **vlan 1 port 3**

[Related commands]

Commands	Description
show mac-address-table static	Show the static address information for one or all (ports or VLAN).

1.4 show mac-address-table l2-address

[Function]

Show all the addresses list in the current MAC address table, including static setting and dynamic MAC address which have not been aged.

[Command Format]

show mac-address-table l2-address port *port-number*

[Parameter]

vlan: VLAN;

vlan_id: VLAN ID, range from 1-4094;

port: physical port;

port-number: physical port number, range from 1-26.

[Command Modes]

Privileged user

[Explanation of command execution echo]

Show “MAC address, port, VLAN, symbol” and other address item information.

[Example]

Show all the MAC address:

Raisecom#**show mac-address-table l2-address**

Show all the MAC address of physical port 5:

Raisecom#**show mac-address-table l2-address port 5**

Show all the MAC address of vlan 2:

Raisecom#**show mac-address-table l2-address vlan 2**

[Related commands]

Commands	Description
search mac-address <i>HHHH.HHHH.HHHH</i>	Search MAC address state in switch.

1.5 show mac-address-table l2-address count

[Function]

Count MAC address table items.

[Command Format]

show mac-address-table l2-address count port *port-number*

[Parameter]

count: count the number;

vlan: VLAN;

vlan_id: VLAN ID, range from 1-4094;

port: physical port;

port-number: physical port number, range from 1-26.

[Command Modes]

Privileged user.

[Explanation of command execution echo]

Show the number of related MAC address.

[Example]

Count the number of all the MAC address:

```
Raisecom#show mac-address-table l2-address count
```

Count the number of MAC address for physical port 5:

```
Raisecom#show mac-address-table l2-address count port 5
```

Count the number for all MAC address of VLAN 2:

```
Raisecom#show mac-address-table l2-address count vlan 2
```

[Related commands]

Commands	Description
search mac-address HHHH.HHHH.HHHH	Search the state of MAC address in the switch.

1.6 show mac-address-table static

[Function]

Show static MAC address information.

[Command Format]

show mac-address-table static port *port-number*

[Parameter]

port: physical port;

port-number: physical port number, range from 1-26.

[Command Modes]

privileged user

[Explanation of command execution echo]

Information of static mac address in switch:

port No. VLAN ID static MAC Addr

[Example]

Show the static MAC address table of physical port 5:

Raisecom#**show mac-address-table static port 5**

[Related commands]

Commands	Description
mac-address-table static	Set static MAC address



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